

**Abstract**

A mobile wireless communications system including a plurality of individual transponding platforms all in communication with a central processing hub. A signal processed by the central processing hub is radiated simultaneously through multiple paths to a plurality of the individual transponding platforms. The signal transmitted to each transponding platform by the hub is appropriately delayed by the hub so as to equalize the differential delay of all such signals from a given receiver location. The radiated signal is then re-radiated by each of the plurality of individual transponding platforms to a mobile satellite terminal that receives the re-radiated signal from the plurality of individual transponding platforms. The signals from the plurality of transponding platforms are all received coherently by the intended user, and incoherently by all other users.

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